

MONTHLY WEATHER REVIEW,

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(General Weather Service of the United States.)

WAR DEPARTMENT,

Office of the Chief Signal Officer,

DIVISION OF

TELEGRAMS AND REPORTS FOR THE BENEFIT OF COMMERCE AND AGRICULTURE.

INTRODUCTION.

In preparing this REVIEW the following data, received up to March 14th, have been used, viz: the regular tri-daily weather charts, containing the data of simultaneous observations taken at 138 Signal Service stations and 13 Canadian stations, as telegraphed to this office; 142 monthly journals and 146 monthly means from the former, and 12 monthly means from the latter; reports from 27 Sunset stations; 238 monthly registers from Voluntary Observers; 38 monthly registers from United States Army Post Surgeons; Marine Records; International Simultaneous Observations; monthly reports from Voluntary Observers in, and the local Weather Service of, Missouri; reliable newspaper extracts; special reports.

Since July 31, 1878, the following stations of the first class have been opened on the dates named:—Des Moines, Iowa, August 1, 1878; Unalashka, Alaska, August, 18, 1878; Stevenson, D. T., September 19, 1878; Madison, Wis., September 29, 1878; Charlotte, N. C., October 6, 1878; Buford, D. T., October 23, 1878; Deadwood, D. T., November 1, 1878; Keogh, M. T., November 18, 1878; Custer, M. T., December 5, 1878; Chattanooga, Tenn., January 8, 1879; Little Rock, Ark., July 1, 1878; Springfield, Ill., July 1, 1879; Pensacola, Fla., October 27, 1879; Cedar Keys, Fla., November 5, 1879; Yates, D. T., November 10, 1879; Helena, M. T., November 10, 1879; Lewiston, Idaho, November 23, 1879; Dayton, Wash. T., December 1, 1879; Elliott, Tex., December 1, 1878; Assiniboine, M. T., December 13, 1879; Missoula, M. T., December 16, 1879; Breakwater, Del., January 29, 1880. The station at Tybee Island, Ga., was closed February 15, 1879, and that at St. Marks, Fla., on October 30, 1879.

BAROMETRIC PRESSURE.

The mean barometric pressure for the month is shown on chart No. II. Compared with the preceding month, the area of 30.20 which extended over the southern portion of the Middle States and northern portion of the South Atlantic States has moved to the southern portion of Georgia, and the line of 30.10 has moved westward over Texas and southward from New England to the central portion of the Middle States. The pressure has changed slightly in the southern portion of the Lake region, while the area of mean low barometer has moved eastward to the northern portion of Lake Superior. In the Northwest the pressure is generally one-tenth of an inch below the average for the month, while at the Rocky Mountain stations it remains near the normal. The most decided change in the distribution of pressure has occurred on the Pacific coast; the high area which was apparently west of the coast during January having moved northeast over Oregon replacing the low area of 29.90 by a general increase of pressure on the entire coast. Compared with the same month in previous years, the pressure continues above the normal in the Southern, Middle and New England States and it is slightly below the normal in the Ohio valley and thence northward and northwestward.

This Paper is furnished by the Government of the United States, without charge to the Co-operating Observers acting with the Signal Office in the collection of Simultaneous Reports.